

Attorney Docket No.: RTS-0350
Inventors: Freier and Roach
Serial No.: 10/017,621
Filing Date: December 7, 2001
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This listing of claims will replace all prior versions and listings of claims in the application.

Listing of the Claims:

Claim 1 (currently amended): A modified compound 8 to 50 nucleobases in length targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1 (SEQ ID NO: 3), wherein said compound specifically hybridizes with said nucleic acid molecule encoding PCTAIRE protein kinase 1 and inhibits the expression of PCTAIRE protein kinase 1.

Claim 2 (currently amended): The compound of claim 1 wherein said compound which is an a modified antisense oligonucleotide.

Claim 3 (canceled).

Claim 4 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified internucleoside linkage.

Claim 5 (original): The compound of claim 4 wherein the modified internucleoside linkage is a phosphorothioate linkage.

Claim 6 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified sugar moiety.

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Claim 7 (original): The compound of claim 6 wherein the modified sugar moiety is a 2'-o-methoxyethyl sugar moiety.

Claim 8 (original): The compound of claim 2 wherein the antisense oligonucleotide comprises at least one modified nucleobase.

Claim 9 (original): The compound of claim 8 wherein the modified nucleobase is a 5-methylcytosine.

Claim 10 (original): The compound of claim 2 wherein the antisense oligonucleotide is a chimeric oligonucleotide.

Claim 11 (original): A compound 8 to 50 nucleobases in length which specifically hybridizes with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding PCTAIRE protein kinase 1.

Claim 12 (original): A composition comprising the compound of claim 1 and a pharmaceutically acceptable carrier or diluent.

Claim 13 (original): The composition of claim 12 further comprising a colloidal dispersion system.

Claim 14 (original): The composition of claim 12 wherein the compound is an antisense oligonucleotide.

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Claim 15 (withdrawn): A method of inhibiting the expression of PCTAIRE protein kinase 1 in cells or tissues comprising contacting said cells or tissues with the compound of claim 1 so that expression of PCTAIRE protein kinase 1 is inhibited.

Claim 16 (withdrawn): A method of treating an animal having a disease or condition associated with PCTAIRE protein kinase 1 comprising administering to said animal a therapeutically or prophylactically effective amount of the compound of claim 1 so that expression of PCTAIRE protein kinase 1 is inhibited.

Claim 17 (withdrawn): The method of claim 16 wherein the disease or condition is a hyperproliferative disease.

Claim 18 (withdrawn): The method of claim 16 wherein the disease or condition is a neurological disease.

Claim 19 (withdrawn): The compound of claim 1 targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1, wherein said compound specifically hybridizes with and differentially inhibits the expression of one of the variants of PCTAIRE protein kinase 1 relative to the remaining variants of PCTAIRE protein kinase 1.

Claim 20 (withdrawn): The compound of claim 19 targeted to a nucleic acid molecule encoding PCTAIRE protein kinase 1, wherein said compound hybridizes with and specifically inhibits the expression of a variant of PCTAIRE protein kinase 1, wherein said

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variant is selected from the group consisting of PCTAIRE 1 and PCTAIRE-1B.

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